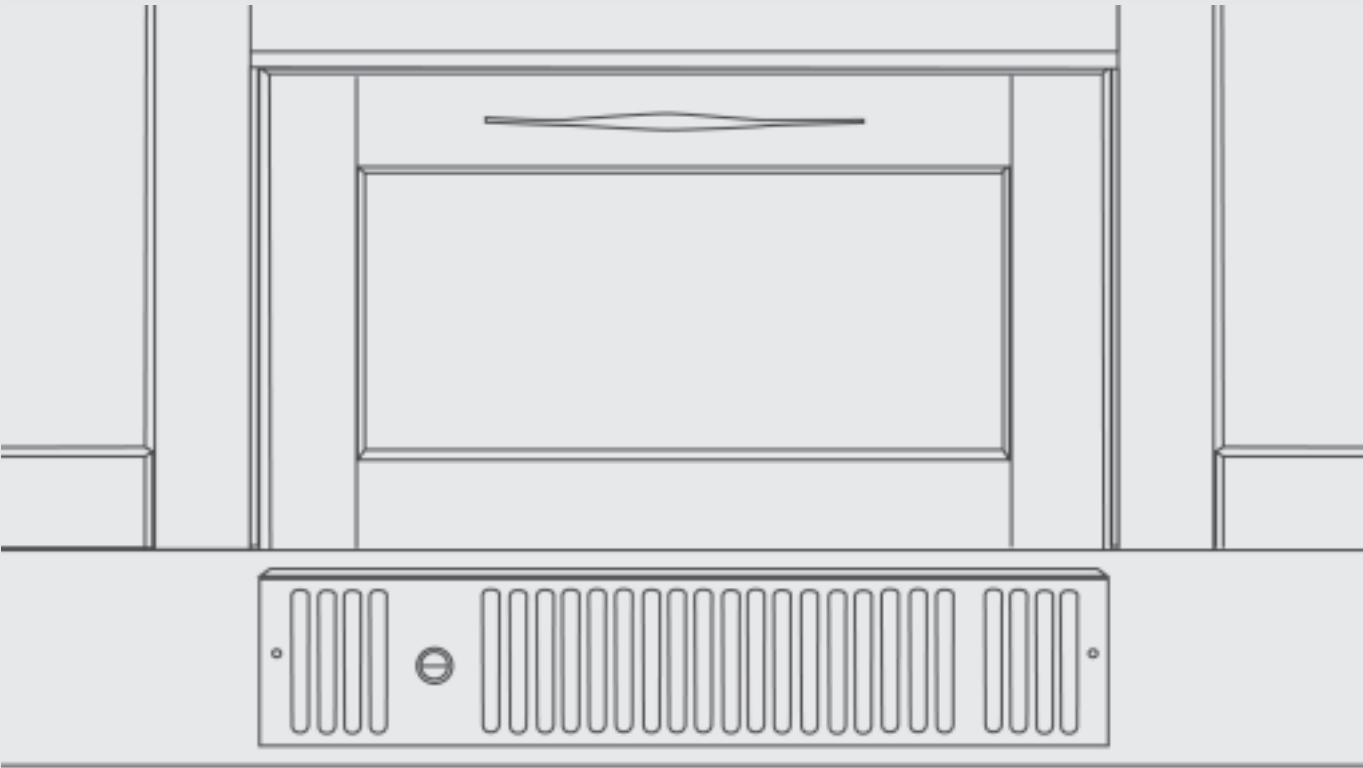


Kitchen Heater

Installation and User Guide



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Installation Guide

Kitchen Heater - Central Heating

The following items should be included in the carton:

- ❖ **Product complete with fixed grille and pre-wired mains cable.**
- ❖ **Fixing screws (2).**
- ❖ **One pair flexible installation hoses.**
- ❖ **Overlay grille.**

In the event of any items missing or visible damage, please contact us on 01245 324560.

This heater is primarily intended for installation in the space beneath kitchen cupboards behind the plinth. However, it can also be installed in similar applications such as stair risers and other built-in furniture.

This heater must **not** be installed in a bathroom or other high humidity areas.

This heater is designed for use on standard two-pipe pumped central heating systems. Pipes are 15mm and either may be used as flow or return. This product is not suitable for one-pipe systems.

This heater is classified as a fixed appliance and electrical connection should be via a double pole 3A fused spur with a minimum contact gap of 3mm. The fused spur must not be directly above the heater but should be accessible after completion of the installation. If the pre-wired mains cable is damaged, it must be replaced by either the manufacturer, its service agent or similarly qualified persons. The appliance must be earthed.

To ensure adequate airflow, a minimum clearance of 20mm between the top of the product and any shelving is essential.

To avoid the possibility of vibration, this product must be installed on a flat, even surface.

There must be no rear access to the product after completion of the installation.

A remote room thermostat can be used in conjunction with this heater. Interrupt the supply between the fused spur and the heater. Refer to the instructions supplied with the thermostat. If in doubt call the helpline on 01245 324560.

The flexible installation hoses supplied are suitable for use with either 15mm diameter copper pipe or cross-linked polythene barrier pipe to BS 7291. For all other types of pipe we recommend the use of compression type fittings.

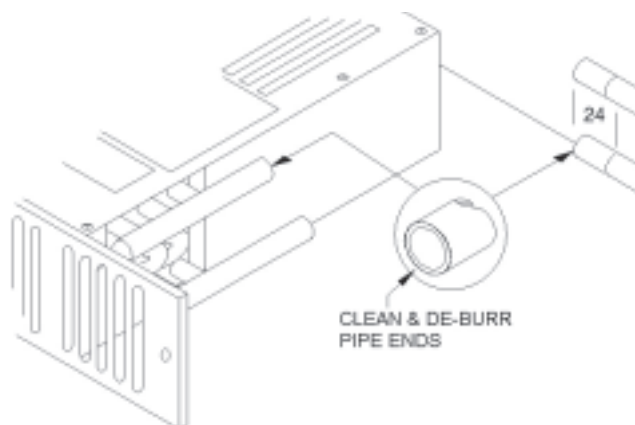
Please note the guarantee may be invalidated if this product is not installed and used in accordance with this guide.

1. We recommend the use of a kneepad when installing this product. Cut the opening in the plinth to the size shown. Use method A or B. If using method B you will require support underneath the heater.

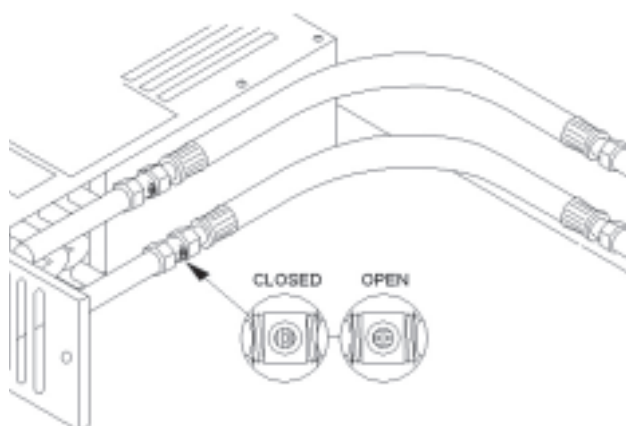


* The overall height of the grille is 100mm. Use care when cutting the opening

2. Clean and de-burr both the heater and system flow and return pipes. Failure to do so may damage the seal in the flexible hose connection and lead to water leaks. Mark the pipes 24mm from the end.

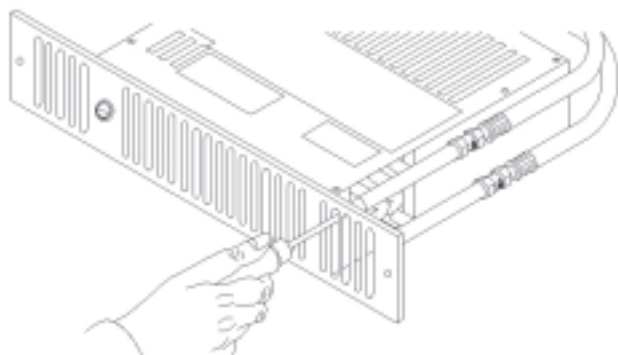


3. Fit isolating valves (not supplied) to the system flow return pipes. Failure to fit isolating valves may mean that the product is not serviceable in the event of failure. Connect the flexible hoses between the system pipework and heater. Open the isolating valves and check for leaks.

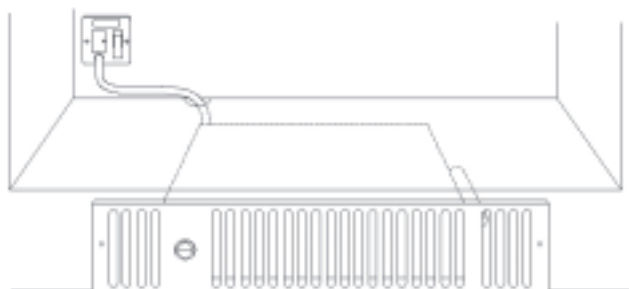


Installation Guide

4. Vent air through the bleed screw.



5. Isolate electrical supply and connect the heater electric cable to the fused spur (3A). Ensure the fused spur is not directly above the heater and is accessible after installation is complete.



Wiring Details


The wires in the mains cable are coloured in accordance with the following code:

Earth: Green-And-Yellow,

Neutral: Blue,

Live: Brown.

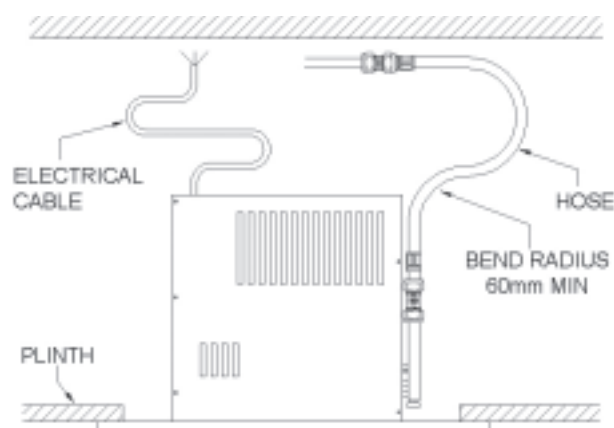
If the colours of the wires in the electrical cable of this heater do not correspond with the coloured markings identifying the terminals in your fused spur proceed as follows:

- ❖ The wire which is coloured GREEN-AND-YELLOW must be connected to the terminal in the fused spur which is marked with the letter E, by the Earth symbol , coloured GREEN or coloured GREEN-AND-YELLOW.
- ❖ The wire which is coloured BLUE must be connected to the terminal which is marked with the letter N or coloured BLACK.
- ❖ The wire which is coloured BROWN must be connected to the terminal which is marked with the letter L or coloured RED.

Commissioning

1. Turn on the electrical supply at the fused spur.
2. Turn on the central heating system.
3. Set any room thermostat/s to maximum.
4. Set the heat output switch to I. Within a few moments the fan will run and the heat will flow.
5. Balance the central heating system if this heater is installed on the same circuit as panel radiators.
6. When the installation is working correctly, remember to reset any room thermostat/s to its normal setting.

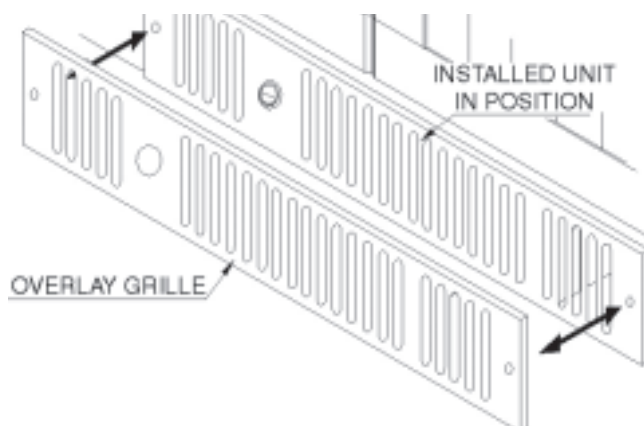
6. Position heater, making sure the flexible hoses are not kinked and the electrical cable is not snagged.



7. Fix heater to plinth.



- 7a. If required fit the overlay grille. Remove the screws holding the fixed grille to the plinth, place the overlay grille over the fixed grille and refit the screws.



Fault Finding

1. No heat output on settings I and II.

- Check the power supply is switched ON.
- Check fuse in the fused spur.
- Check the wiring connections at the fused spur.
- If fitted, ensure any room thermostats are calling for heat.
- Balance the central heating system if installed on the same circuit as panel radiators and increase the circulating pump speed if required.
- Increase the boiler water temperature.

In the event of any difficulty, please contact us on 01245 324560.
It will be more helpful if you do not remove the product from the central heating system.

Installation Guide

Kitchen Heater - Electric

The following items should be included in the carton:

- ❖ **Product complete with fixed grille and pre-wired mains cable.**
- ❖ **Fixing screws (2).**
- ❖ **Overlay grille.**

In the event of items missing or visible damage, please contact us on 01245 324560.

This heater is primarily intended for installation in the space beneath kitchen cupboards behind the plinth. However, it can also be installed in similar applications such as stair risers and other built-in furniture.

This heater model must **not** be installed in a bathroom or other high humidity areas.

This heater is classified as a fixed appliance and electrical connection should be via a 10A double pole fused spur with a minimum contact gap of 3mm. The fused spur must not be directly above the heater but should be accessible after completion of the installation. If the pre-wired mains cable is damaged, it must be replaced by either the manufacturer, its service agent or similarly qualified persons.

To ensure adequate airflow, a minimum clearance of 20mm between the top of the product and any shelving is essential.

To avoid the possibility of vibration, this product must be installed on a flat, even surface.

There must be no rear access to the product after completion of the installation.

A remote room thermostat can be used in conjunction with this heater.

This heater is fitted with overheat protection. The heater will automatically stop in the event of the heating elements reaching the cut out temperature.

In the event of any difficulty please contact us on 01245 324560.

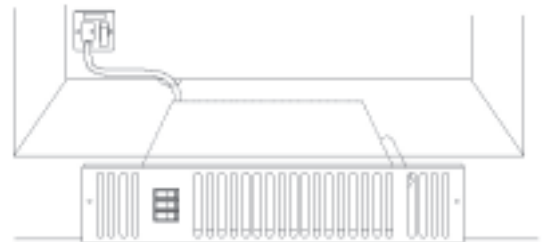
Please note the guarantee may be invalidated if this product is not installed and used in accordance with this guide.

1. We recommend the use of a kneepad when installing this product. Cut the opening in the plinth to the size shown. Use method A or B. If using method B you will require support underneath the heater.



* The overall height of the grille is 100mm. Use care when cutting the opening

2. Isolate the electrical supply and connect the heater electric cable to the 10A fused spur. The fused spur must not be directly above the heater, but should be accessible after completion of the installation.



Installation Guide

Wiring Details


The wires in the mains cable are coloured in accordance with the following code:

Earth: Green-And-Yellow,

Neutral: Blue,

Live: Brown.

If the colours of the wires in the electrical cable of this heater do not correspond with the coloured markings identifying the terminals in your fused spur proceed as follows:

- ❖ The wire which is coloured GREEN-AND-YELLOW must be connected to the terminal in the fused spur which is marked with the letter E, by the Earth symbol , coloured GREEN or coloured GREEN-AND-YELLOW.
- ❖ The wire which is coloured BLUE must be connected to the terminal which is marked with the letter N or coloured BLACK.
- ❖ The wire which is coloured BROWN must be connected to the terminal which is marked with the letter L or coloured RED.

Commissioning

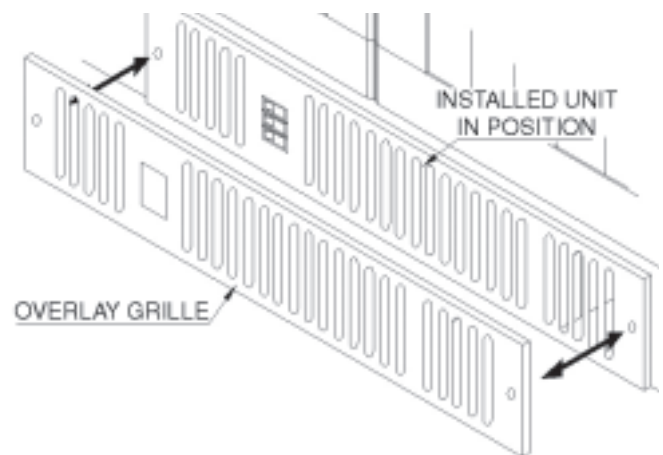
1. Turn on the electrical supply at the fused spur.
2. Set any room thermostat/s to maximum.
3. Set the upper switch to ON – the fan will run.
4. Set the middle 1kW switch to ON – heat will flow immediately (1kW).
5. Set the lower 2kW switch to ON – additional heat will flow (2kW).
6. When the installation is working correctly, remember to reset any room thermostat/s to its normal setting.

3. Position the heater, making sure the electrical cable is not snagged.

4. Fix heater to plinth.



- 4a. If required fit the overlay grille. Remove the screws holding the fixed grille to the plinth, place the overlay grille over the fixed grille and refit the screws.



Fault Finding

1. Fan does not run/no heat output.

- a. Check the power supply is switched ON.
- b. Check fuse in the fused spur.
- c. Check the fan switch is ON.

2. If the overheat protection has activated, manually reset as follows.

- a. Switch the power supply OFF at the fused spur.
- b. Wait five minutes for the overheat cut out switch to reset.
- c. Switch the power supply ON.

In the event of any difficulty, please contact us on 01245 324560.
It will be more helpful if you do not remove the product from the central heating system.

User Guide

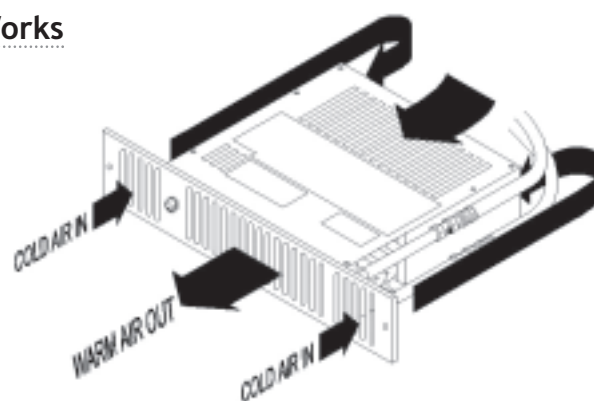
Kitchen Heater - Central Heating

User Information

- ❖ Your kitchen heater is designed to operate as part of your central heating system in the same way as a panel radiator. Providing the heat output switch is left in the normal (I) position your heater will switch on and off automatically with your central heating system.

How Your Kitchen Heater (Central Heating) Works

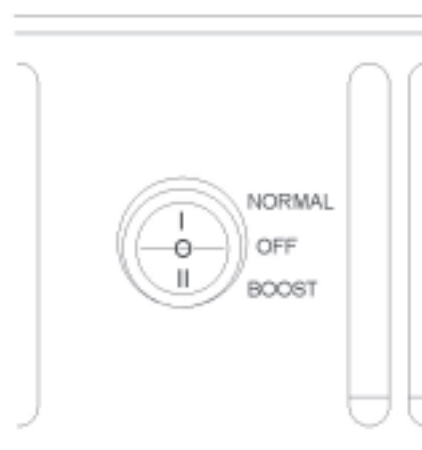
Hot water from your central heating system passes through a heat exchanger transferring its heat to the aluminium fins. Cooler air is drawn in by the fan and heated as it passes through the heat exchanger before being expelled gently back into the room. This not only gives a more even temperature spread, but will heat a room up in less than half the time of a traditional panel radiator.



This heater includes an internal thermostat that prevents the fan from operating until the central heating system water passing through the heat exchanger reaches 42°C. This prevents the heater circulating cooler air at start up.

Heating

Ensure your central heating is on, the switch set to normal (I). Providing the water temperature in the system is more than 42°C and the thermostat controlling your central heating system is calling for heat, your heater will switch on. If you require a faster warm up set the switch to boost (II). To switch off the heater set the switch to O.



Fault Finding

This heater is covered by a **free 2-year parts and labour guarantee**. Please refer to the Fault Finding section on page 5 for advice. In the event of difficulty, please contact us on 01245 324560. It will be helpful if you do not disconnect the heater from the central heating system.

Kitchen Heater - Electric

User Information

- ❖ Your product is covered by a **free 2-year parts and labour guarantee**.

Heating

Before switching the heater on, please ensure the fascia grille is free from obstruction.

Ensure your fused spur is switched **ON**. Set the thermostat (if fitted) to the desired temperature. Set the upper fan switch and the middle 1kW switch to **ON**. If you require a faster warm up set the lower 2kW switch to **ON**.

To turn the heater off, set the fan switch to **OFF**. Please note all switches must be in the **ON** position to achieve 2kW heat output.

For your safety this heater is fitted with automatic overheat protection. If the heater stops, turn off the power at the fused spur, wait 5 minutes and switch the power back on.



Air Circulation (Summer Use)

Set the thermostat (if fitted) to maximum. Set the fan switch to **ON**. Ensure the 1kW and 2kW switches are **OFF**. The heater will provide a cooling flow of air.

Fault Finding

This heater is covered by a **free 2-year parts and labour guarantee**. Please refer to the Fault Finding section on page 9 for advice. In the event of difficulty, please contact us on 01245 324560.

Manufactured by:

Smith's Environmental Products Ltd,

Blackall Industrial Estate, South Woodham Ferrers, Chelmsford, Essex, CM3 5UW

Tel: 01245 324560 Fax: 01245 324422

General Information E-mail: info@smiths-env.com Web: www.smiths-env.com